



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Sturm, et al.  
Serial No.: 10/022,189  
Filed: 12/18/2001  
Title: Fractionation of Macro-Molecules Using Asymmetric Pulsed Field Electrophoresis

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Examiner: Sines, B.

Group Art Unit: 1743

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE**

Sir:

This is a response to the outstanding Office Action dated August 20, 2003, on the above-identified invention. The time period for response extends to and includes November 20, 2003.

**Amendments to the Claims** appear on page 2 of this response.

**Remarks** appear on page 12 of this response.